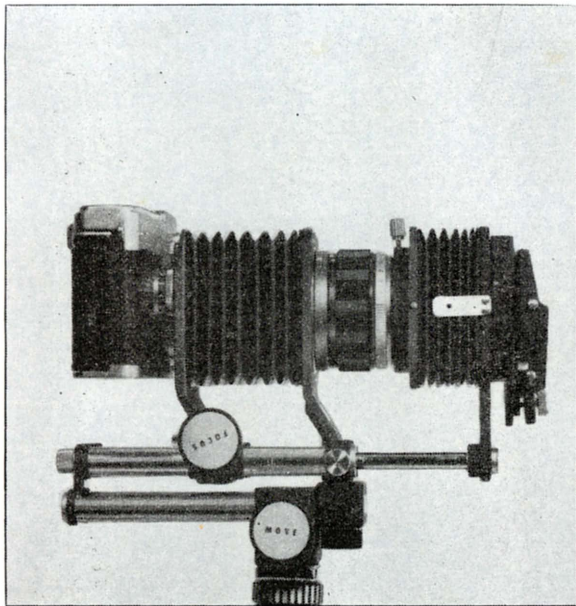




OLYMPUS
Pen F

SLIDE COPIER-2
INSTRUCTIONS

OLYMPUS OPTICAL CO., LTD.

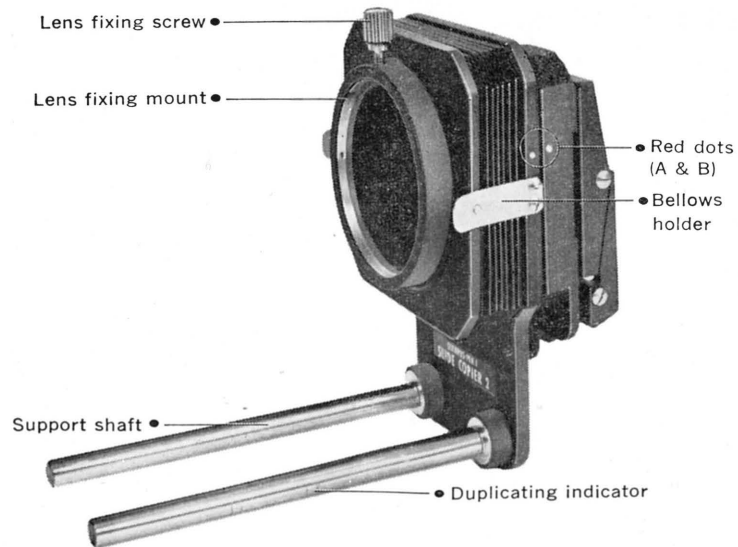
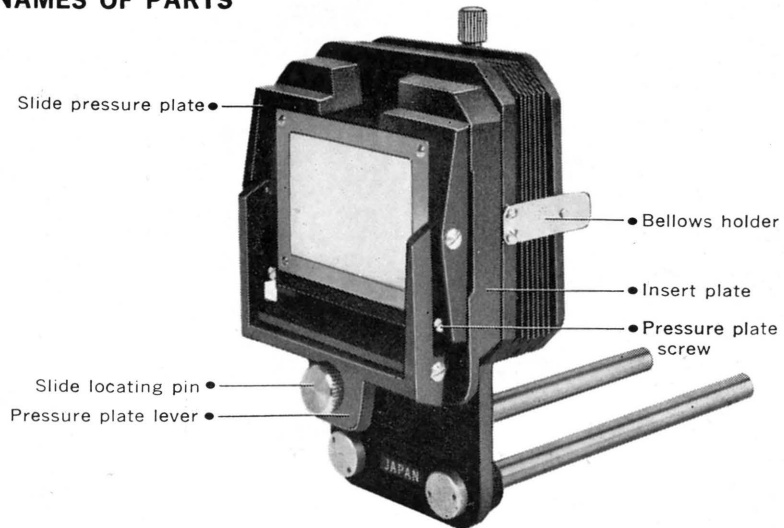


This Slide Copier is designed for use in conjunction with the Pen F Bellows-2 for the purpose of copying slides of half frame, full frame or strip films. Be sure to use the standard lens with this Copier.

MAIN FEATURES

- Camera: Pen FT/FV/F
Auxiliary accessories: Bellows-2 for Pen FT/FV/F
Structure: Bellows support shafts (2), Slide pressure plate
Slide fixing system: Insert-style
Duplication size: Half frame (24×18mm) & full frame (36×24mm)
Duplicating indicator: Mark "P" (=Pen) for half frame
Mark "L" (=Leica) for full frame
Size and weight: 65.2(W)×126(D)×102.6(H)mm, 270gr. (2½(W)×5(D)×4(H) inches, 9½ oz.)

NAMES OF PARTS



ASSEMBLY AND USE

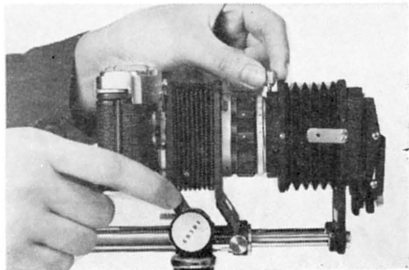
The Slide Copier is used in combination with the bellows. This booklet explains the assembly and use of the Slide Copier on the assumption that the bellows is already mounted to the camera. As to the bellows, please refer to the Instruction of Bellows-2.

Assemble the Slide Copier

After loosening Slide Copier mounting screw on the bellows by turning counterclockwise, insert the copier support shafts into the slide copier mounting sockets "A" on the Bellows. After in-

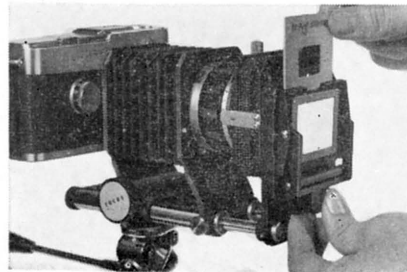
section of the shafts, turn the slide copier mounting screw clockwise to fix the copier.

Connect the lens to the lens fixing mount of the copier in the following manner: loosen the lens fixing screw, and unfasten the bellows holders. Fit the front barrel of the lens into the lens fixing mount and fix it by tightening the lens fixing screw. Set the lens focus to infinity (∞). As the lens fixing mount is a slip-on type, 45mm in diameter, unsuitable for the F1.2 f=42mm standard, it is necessary to use the "Adapter Ring 49→45mm for this.

**Insert the slide or strip film**

Loosen the pressure plate screw on the slide pressure plate. Pressing the pressure plate lever, open the slide pressure plate, and push in the slide mount all the way, so that it is between the two slide locating pins.

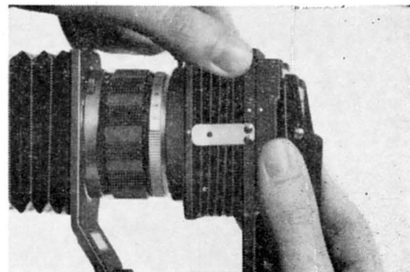
In case of a strip film, open the slide pressure plate and insert the film, till it rests on the slide locating pins. Tighten the pressure plate screw, leaving a



slight clearance between the end of the screw and the slide pressure plate.

When you move the strip film to the right or left, press the pressure plate screw to open slightly, and pull the end of the strip film.

After inserting the slide, adjust the position of the inserted frame, so that the red dots (A & B) marked on the insert plate and the support plate, respectively, may align with each other.



Determine the lens position properly

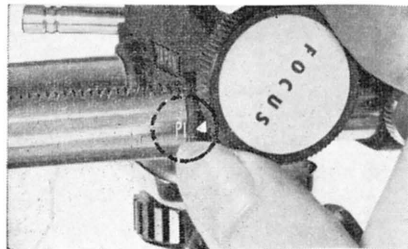
The lens position depends on the size of the subject or original to be copied.

1) Half frame slides

Unfasten the clamp lever of the bellows, and turn the FOCUS knob. Set the red triangle (◄) marked under the FOCUS knob to the mark "P" on the support shaft. And also, set the mark "P" on the copier support shaft at the end of the copier mounting socket on the bellows.

2) Full frame slides

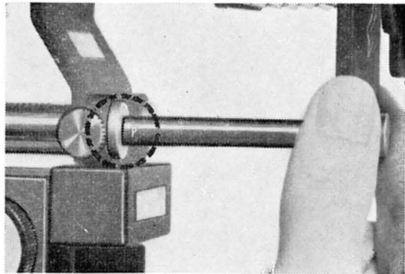
The procedure is the same as described above for half frame slides, with the



mark "L", replacing the mark "P". The mark "L" or "P", however, is used as an eyemark, indicating an approximate position, according to which the proper lens position will be determined by turning the focus knob of the bellows for fine focusing.

Lighting

The light source is positioned behind the slide pressure plate (the diffusion glass). Be careful to use even lighting as much as possible. Use a blue lamp for colour duplication or electronic flash. Natural daylight is also suitable for colour duplicating.

**Slide format position**

When you insert the slide mount into the copying position, the full frame (36×24) has to be inserted, long side horizontal and short side vertical, but the half frame (24×18) can be inserted either way, long side horizontal and short side vertical or vice versa.

Set the camera in position, corresponding to the framing of the subject or original to be copied. (See the Instruction of Bellows-2.)

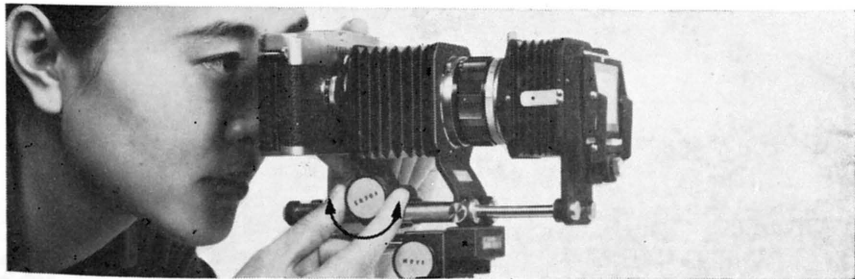
Adjust the position of the slide pressure plate vertically, too. It does not matter

if the red dots A and B do not correspond.

Focusing

As the automatic diaphragm of the lens is released when the bellows is attached, focus at full lens opening. Looking through the viewfinder, adjust focusing by turning the FOCUS knob clockwise or counterclockwise. If the original does not fill up the frame, move the copier support shaft back or forth till it comes to position.

Fine focusing is obtained more easily by using the angle magnifier.



Determine exposure

As the Pen FT has a through-the-lens metering system in it, you have only to set the F/stop ring at the TTL number which is shown by the built-in exposure meter, to get the right exposure.

Be sure to measure the exposure at full lens opening. With the Pen FV or F, take exposure value with an exposure meter, which will be held near the surface of the lens fixing mount of the slide copier. Multiply this value with the exposure factor below.

For half frame: multiple factor=4

For full frame : multiple factor=2.9

Correct, however, the exposure value according to the following conditions of the film to be copied.

- * Reduce exposure by one stop, when most of the picture is white or in a bright tone.

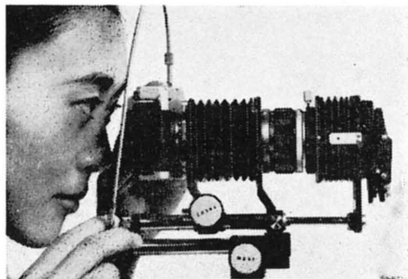
- * On the contrary, increase exposure by one stop when most of the picture is black or in a dark tone.

In addition, to increase the depth of focus the aperture of the lens should be smaller than F 5.6.

Shutter release

Connect a cable release to the shutter release button of the camera, to avoid the camera vibration, when the shutter is released.

If no cable release is available, a simple solution is to use the self-timer, instead.

**Adapter Ring 49→45mm**

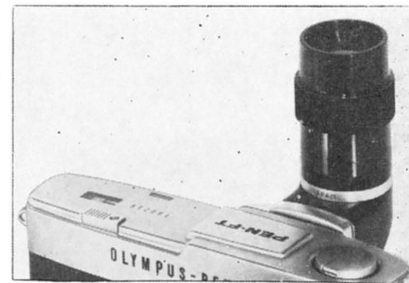
The front barrel of the standard lens F 1.2 f=42mm is 49mm in diameter, a little too large to be coupled with such accessories as Pen-up-3, Slide Copier-2, which is designed to be used with Bellows-2, and the Reverse Ring, designed for Bellows-2 or Extension Ring. When this "Adapter Ring 49→45mm" is screwed into the front thread of the standard lens, the exterior diameter will be reduced to 45mm, so that the above accessories can be attached.

**Angle Magnifier**

This is a combination of an angle finder and a magnifier. It functions like a magnifier, but as it turns freely, you can look through the viewfinder from any angle.

Angle Finder

Fix the angle finder on the viewfinder of the camera, and you can look through the viewfinder from any angle you like with ease. This is especially convenient when the camera is situated in a low position.





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